

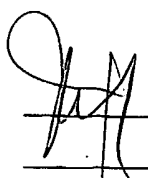
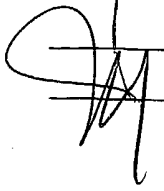


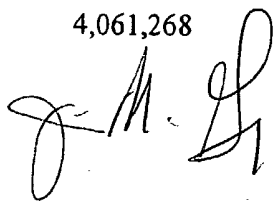
INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE
PROSECUTION OF THE SUBJECT APPLICATION

Applicant: R.T. Hamilton et al. Attorney Docket No. WEYE121482/25270RP
Application No.: 10/635,062 Group Art Unit: ~~3671~~ 1774
Filed: August 5, 2003
Title: ATTACHMENT OF SUPERABSORBENT MATERIALS TO FIBERS USING OIL



U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
<i>[Signature]</i>	U1	RE24,011		05/31/1955	Ericks
<i>[Signature]</i>	U2	2,601,597		06/24/1952	Daniel, Jr. et al.
<i>[Signature]</i>	U3	2,849,000		08/26/1958	Lewing
<i>[Signature]</i>	U4	2,953,187		09/20/1960	Francis, Jr.
<i>[Signature]</i>	U5	3,010,161		11/28/1961	Duvall
<i>[Signature]</i>	U6	3,021,242		02/13/1962	Touey
<i>[Signature]</i>	U7	3,059,313		10/23/1962	Harmon
<i>[Signature]</i>	U8	3,070,095		12/25/1962	Torr
<i>[Signature]</i>	U9	3,087,833		04/30/1963	Drelich
<i>[Signature]</i>	U10	3,327,708		06/27/1967	Sokolowski
<i>[Signature]</i>	U11	3,344,789		10/03/1967	Arnold et al.
<i>[Signature]</i>	U12	3,350,486		10/31/1967	Knoepfler et al.
<i>[Signature]</i>	U13	3,371,666		03/05/1968	Lewing
<i>[Signature]</i>	U14	3,377,302		04/09/1968	Gugliemelli et al.
<i>[Signature]</i>	U15	3,395,201		07/30/1968	Kalwaites
<i>[Signature]</i>	U16	3,409,497		11/05/1968	Roseland
<i>[Signature]</i>	U17	3,425,971		02/04/1969	Gugliemelli et al.
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<i>[Signature]</i>	U21	3,645,836		02/29/1972	Torr

	U22	3,661,154	05/09/1972	Torr
	U23	3,661,632	05/09/1972	Gagliardi et al.
	U24	3,669,103	06/13/1972	Harper et al.
	U25	3,670,731	06/20/1972	Harmon
	U26	3,672,945	06/27/1972	Taylor
	U27	3,686,024	08/22/1972	Nankee et al.
	U28	3,692,622	09/19/1972	Dunning
	U29	3,745,060	07/10/1973	Jumentier et al.
	U30	3,758,641	09/11/1973	Zweigle
	U31	3,766,922	10/23/1973	Krusko
	U32	3,777,758	12/11/1973	Mesek et al.
	U33	3,788,936	01/29/1974	Brock et al.
	U34	3,804,092	04/16/1974	Tunc
	U35	3,808,088	04/30/1974	Knechtges et al.
	U36	3,886,941	06/03/1975	Duane et al.
	U37	3,888,256	06/10/1975	Studinger
	U38	3,888,257	06/10/1975	Cook et al.
	U39	3,901,236	08/26/1975	Assarsson et al.
	U40	3,903,889	09/09/1975	Torr
	U41	3,908,659	09/30/1975	Wehrmeyer et al.
	U42	3,923,592	12/02/1975	George et al.
	U43	3,949,035	04/06/1976	Dunning et al.
	U44	3,959,569	05/25/1976	Burkholder, Jr.
	U45	3,978,257	08/31/1976	Ring
	U46	3,991,237	11/09/1976	Töpfl et al.
	U47	4,007,083	02/08/1977	Ring et al.
	U48	4,009,313	02/22/1977	Crawford et al.
	U49	4,035,217	07/12/1977	Kennette et al.
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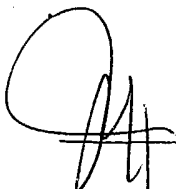
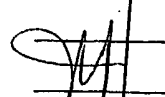
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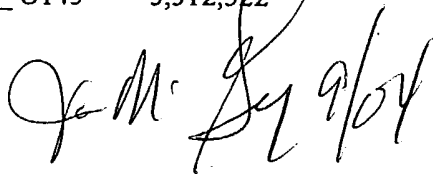
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	U54	4,066,583	01/03/1978	Spaulding
	U55	4,071,636	01/31/1978	Nishino et al.
	U56	4,096,312	06/20/1978	Holst et al.
	U57	4,102,340	07/25/1978	Mesek et al.
	U58	4,103,062	07/25/1978	Aberson et al.
	U59	4,128,692	12/05/1978	Reid
	U60	4,160,059	07/03/1979	Samejima
	U61	4,232,674	11/11/1980	Melican
	U62	4,235,237	11/25/1980	Mesek et al.
	U63	4,250,660	02/17/1981	Kitamura et al.
	U64	4,282,121	08/04/1981	Goodrich
	U65	4,289,513	09/15/1981	Brownhill et al.
	U66	4,289,536	09/15/1981	Dereser
	U67	4,324,706	04/13/1982	Tabe et al.
	U68	4,337,111	06/29/1982	Kauffman et al.
	U69	4,338,417	07/06/1982	Heslinga et al.
	U70	4,354,487	10/19/1982	Oczkowski et al.
	U71	4,364,992	12/21/1982	Ito et al.
	U72	4,379,194	04/05/1983	Clarke et al.
	U73	4,392,908	07/12/1983	Dehnel
	U74	4,394,172	07/19/1983	Scheuble et al.
	U75	4,404,250	09/13/1983	Clarke
	U76	4,410,571	10/18/1983	Korpman
	U77	4,412,036	10/25/1983	Pederson et al.
	U78	4,415,388	11/15/1983	Korpman
	U79	4,424,247	01/03/1984	Erickson
	U80	4,444,830	04/24/1984	Erickson
	U81	4,457,978	07/03/1984	Wawzonek
	U82	4,467,012	08/21/1984	Pederson et al.
	U83	4,481,076	11/06/1984	Herrick

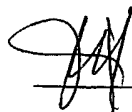

U84	4,486,501	12/04/1984	Holbek
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U86	4,500,315	02/19/1985	Pieniak et al.
U87	4,507,438	03/26/1985	Obayashi et al.
U88	4,532,176	07/30/1985	Briggs et al.
U89	4,537,767	08/27/1985	Rothman et al.
U90	4,541,871	09/17/1985	Obayashi et al.
U91	4,552,816	11/12/1985	Spahic et al.
U92	4,558,091	12/10/1985	Hubbard
U93	4,597,930	07/01/1986	Szal
U94	4,605,401	08/12/1986	Chmelir et al.
U95	4,666,975	05/19/1987	Yamasaki et al.
U96	4,666,983	05/19/1987	Tsubakimoto et al.
U97	4,673,402	06/16/1987	Weisman et al.
U98	4,676,784	06/30/1987	Erdman et al.
U99	4,685,909	08/11/1987	Berg et al.
U100	4,693,713	09/15/1987	Chmelir et al.
U101	4,699,808	10/13/1987	Menard et al.
U102	4,721,647	01/26/1988	Nakanishi et al.
U103	4,734,478	03/29/1988	Tsubakimoto
U104	4,755,178	07/05/1988	Insley et al.
U105	4,758,466	07/19/1988	Dabi et al.
U106	4,764,418	08/16/1988	Kuenn et al.
U107	4,772,492	09/20/1988	Bouchette
U108	4,788,080	11/29/1988	Hojo et al.
U109	4,798,744	01/17/1989	Goldstein et al.
U110	4,813,948	03/21/1989	Insley
U111	4,818,599	04/04/1989	Marcus
U112	4,826,880	05/02/1989	Lesniak et al.
U113	4,833,011	05/23/1989	Horimoto
U114	4,842,593	06/27/1989	Jordan et al.

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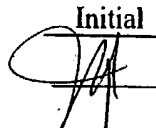

	U115	4,851,069	07/25/1989	Packard et al.
	U116	4,874,811	10/17/1989	Borchers et al.
	U117	4,886,697	12/12/1989	Perdelwitz, Jr. et al.
	U118	4,888,238	12/19/1989	Katz et al.
	U119	4,892,769	01/09/1990	Perdelwitz, Jr. et al.
	U120	4,902,559	02/20/1990	Eschwey et al.
	U121	4,902,565	02/20/1990	Brook
	U122	4,944,734	07/31/1990	Wallach
	U123	4,990,551	02/05/1991	Häubl
	U124	5,002,814	03/26/1991	Knack et al.
	U125	5,002,986	03/26/1991	Fujiura et al.
	U126	5,041,104	08/20/1991	Seal
	U127	5,057,166	10/15/1991	Young, Sr. et al.
	U128	5,064,689	11/12/1991	Young, Sr. et al.
	U129	5,128,082	07/07/1992	Makoui
	U130	5,149,334	09/22/1992	Lahrman et al.
	U131	5,149,335	09/22/1992	Kellenberger et al.
	U132	5,161,686	11/10/1992	Weber et al.
	U133	5,164,459	11/17/1992	Kimura et al.
	U134	5,217,445	06/08/1993	Young et al.
	U135	5,225,047	07/06/1993	Graef et al.
	U136	5,230,959	07/27/1993	Young, Sr. et al.
	U137	5,252,275	10/12/1993	Sultze et al.
	U138	5,252,340	10/12/1993	Honeycutt
	U139	5,278,222	01/11/1994	Stack
	U140	5,283,123	02/01/1994	Carter et al.
	U141	5,294,249	03/15/1994	Luisi
	U142	5,300,054	04/05/1994	Feist et al.
	U143	5,300,192	04/05/1994	Hansen et al.
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	U145	5,312,522	05/17/1994	Van Phan et al.


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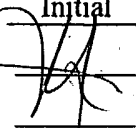

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	U146	5,352,480		10/04/1994	Hansen et al.
	U147	5,362,776		11/08/1994	Barenberg et al.
	U148	5,378,528		01/03/1995	Makoui
	U149	5,382,610		01/17/1995	Harada et al.
	U150	5,516,569		05/14/1996	Veith et al.
	U151	5,547,541		08/20/1996	Hansen et al.
	U152	5,589,256		12/31/1996	Hansen et al.
	U153	5,597,873		01/28/1997	Chambers et al.
	U154	5,611,885		03/18/1997	Hansen et al.
	U155	5,633,316		05/27/1997	Gartner et al.
	U156	5,641,561		06/24/1997	Hansen et al.
	U157	5,672,418		09/30/1997	Hansen et al.
	U158	5,693,411		12/02/1997	Hansen et al.
	U159	5,770,711		06/23/1998	Greene et al.
	U160	5,789,326		08/04/1998	Hansen et al.
	U161	5,807,364		09/15/1998	Hansen
	U162	5,851,672		12/22/1998	Wang et al.
	U163	6,340,411	B1	01/22/2002	Hansen et al.
	U164	6,344,109	B1	02/05/2002	Gross
	U165	6,503,526	B1	01/07/2003	Krzysik et al.
	U166	6,533,898	B2	03/18/2003	Gross
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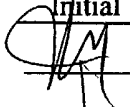
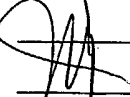
FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	Document No.	Kind Code	Publication Date (mm/dd/yyyy)	Country	English Abstract Provided	Translation Provided
	F1	729,513		03/08/1966	Canada		
	F2	806,352		02/18/1969	Canada		
	F3	813,616		05/27/1969	Canada		
	F4	841,940		05/19/1970	Canada		
	F5	953,890		09/03/1974	Canada		

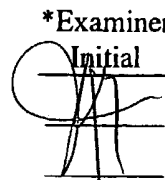
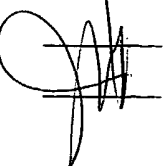
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	F6	1052156		04/10/1979	Canada		
	F7	0 071 063	A1	02/09/1983	EPO	X	
	F8	0 096 976	A2	12/28/1983	EPO		
	F9	0 099 586	A3	02/01/1984	EPO		
	F10	0 122 042	A2	10/17/1984	EPO		
	F11	0 156 649	A2	10/02/1985	EPO		
	F12	0 157 960	A1	10/16/1985	EPO		
	F13	0 210 754	A1	02/04/1987	EPO		
	F14	0 233 067	A2	08/19/1987	EPO		
	F15	0 317 106	A2	05/24/1989	EPO		
	F16	0 402 650	A2	12/19/1990	EPO		
	F17	0 427 316	A2	05/15/1991	EPO		
	F18	0 427 317	A2	05/15/1991	EPO		
	F19	0 429 112	A2	05/29/1991	EPO		
	F20	0 440 472	A1	08/07/1991	EPO		
	F21	0 442 185	A1	08/21/1991	EPO		
	F22	0 450 922	A2	10/09/1991	EPO		
	F23	0 450 923	A2	10/09/1991	EPO		
	F24	0 450 924	A2	10/09/1991	EPO		
	F25	0 471 114	A2	02/19/1992	EPO		
	F26	0 509 708	A1	10/21/1992	EPO		
	F27	1,382,716		11/09/1964	France		X
	F28	2080724		02/23/1971	France	X	
	F29	489,308		11/20/1927	Germany		X
	F30	1,079,796		09/06/1962	Germany		X
	F31	2 048 721		06/24/1971	Germany		X
	F32	29 49 531	A1	07/10/1980	Germany	X	
	F33	3313344		10/18/1984	Germany	X	
	F34	58-183754		10/27/1983	Japan	X	

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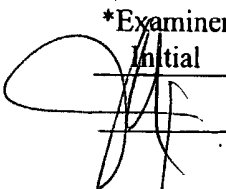
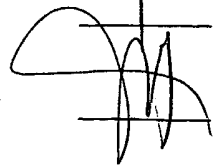
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	F35	59-189103		10/26/1984	Japan		X
	F36	61-28422		02/08/1986	Japan		X
	F37	61272050		12/02/1986	Japan	X	
	F38	61-282465		12/12/1986	Japan		X
	F39	42,994/88		02/24/1988	Japan	X	
	F40	63 035 803		02/16/1988	Japan	X	
	F41	1-156578		06/20/1989	Japan		X
	F42	1-162874		06/27/1989	Japan		X
	F43	1229881		09/13/1989	Japan	X	
	F44	1-282389		11/14/1989	Japan		X
	F45	4-246403		09/02/1992	Japan		X
	F46	1,390,284		04/23/1988	Russia	X	
	F47	254,357		07/02/1926	United Kingdom		
	F48	260,935		11/25/1926	United Kingdom		
	F49	720,390		12/15/1954	United Kingdom		
	F50	1 217 452		12/31/1970	United Kingdom		
	F51	1 33 1964		09/26/1973	United Kingdom		
	F52	2 004 201	A	03/28/1979	United Kingdom		
	F53	2 007 998	A	05/31/1979	United Kingdom		
	F54	2 092 895	A	08/25/1982	United Kingdom		
	F55	2 119 384	A	11/16/1983	United Kingdom		
	F56	2,189,127	A	10/21/1987	United Kingdom		
	F57	WO 88/01316	A1	02/25/1988	WIPO		
	F58	WO 88/04704	A1	06/30/1988	WIPO		
	F59	WO 88/07381	A1	10/06/1988	WIPO	X	
	F60	WO 90/09236	A1	08/23/1990	WIPO	X	
	F61	WO 90/11181	A1	10/04/1990	WIPO		
	F62	WO 91/05108	A1	04/18/1991	WIPO		
	F63	WO 91/09916	A1	07/11/1991	WIPO		


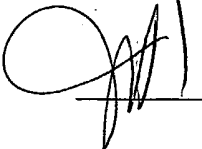
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	F64	WO 91/10010	A1	07/11/1991	WIPO	X	
	F65	WO 93/24153	A1	12/09/1993	WIPO		
	F66	WO 94/04351	A1	03/03/1994	WIPO		
	F67	WO 94/04352	A1	03/03/1994	WIPO		
	F68	WO 95/00703	A1	01/05/1995	WIPO		
	F69	WO 01/48025	A1	07/05/2001	WIPO		

OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Cite No.	
	O1	Blanchard, E.J., and R.M. Reinhart, "Dyeing of Crosslinked Cotton Containing Glycol Additives," <i>U.S. Dept. of Agriculture</i> , New Orleans, 24(1):13-17, Jan. 1992.
	O2	Burkholder, N.D., "Absorbent Polymers - A New Concept in Fluid Absorption," <i>The Dow Chemical Company Designed Products Laboratory</i> , Midland, Michigan, 1973, pp. 73-79.
	O3	Byrd, V.L., "How Bonds Develop During Web Consolidation," <i>PTI</i> , Oct. 1986, pp. 240-243.
	O4	Gorbushin, V.A., and Yu.G. Polikanov, "Investigation of the Effect of the Nature and Concentration of Binders on the Properties of Dry-Process Paper," <i>Sb. Tr. Tsent. Nauch.-Issled. Inst. Bumagi</i> 9:117-123, 1974.
	O5	Gugliemelli, I.A., et al., "Base-Hydrolyzed Starch-Polyacrylonitrile (S-PAN) Graft Copolymer. S-PAN-1:1, PAN M.W. 794,000," <i>J. of Applied Copolymer Science</i> 13:2007-2017, 1969.
	O6	Hoque, S.N., et al., "Granulation and Tableting of Iron Oxide-Chromic Oxide Catalyst Mass With the Aid of Binding Ingredients Part II-Cellulosic Derivatives and Polyethylene Glycol as Binding Ingredients," <i>Fertilizer Technology</i> 20(1-4):30-35, 1983.
	O7	Lammie, S., "Use of Glycerine as a Softener for Paper Products," <i>The World's Paper Trade Review</i> , Dec. 13, 1962, pp. 2050, 2052, 2054, and 2056.
	O8	Lindsay, W.F., "Absorbent Starch Based Co-Polymers - Their Characteristics and Applications," <i>Formed Fabrics Industry</i> , May 1977, pp. 20, 24, and 26.

-  O9 Lysogorskaya, N.P., et al., "Effect of Moisture Content on Development of Interfiber Bonding in the Structure of Air-Dried Paper," translated from *Zhurnal Prikladnoi Khimii* 63(8):1869-1872, Aug. 1990.
- O10 Neogi, A.N., and J.R. Jensen, "Wet Strength Improvement Via Fiber Surface Modification," *Tappi* 63(8):86-88, Aug. 1980.
- O11 Ogurtsov, V.I., et al., "Effect of the Modulus of Elasticity of the Binder on the Properties of Dry-Process Paper," *Sb. Tr. Tsent. Nauch-Issled. Inst. Bumagi* 9:123-127, 1974.
- O12 Sliwiok, J., and T. Kowalska, "Investigation of Self-Association of the Selected Glycols and Cellulose Sorbents," *Microchemical Journal* 26:68-74, 1981.
- O13 "Super Slurpers: Time for Change?" *Chemical Week*, Jul. 24, 1974, pp. 21-22.
- O14 Weaver, M.O., et al., "Highly Absorbent Starch-Based Polymer," *Northern Regional Research Laboratory, Agricultural Research Service, U.S. Dept. of Agriculture, Peoria, Illinois*, pp. 169-177.
-  O15 Weaver, M.O., et al., "Hydrolyzed Starch-Polyacrylonitrile Graft Copolymers: Effect of Structure of Properties," *J. of Applied Polymer Science* 15:3015-3024, 1971.

Examiner 

Date Considered 9/04

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